

Nishimura

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### [54] MAGNETOOPTICAL RECORDING MEDIUM AND METHOD FOR REPRODUCING INFORMATION FROM A MAGNETOOPTICAL RECORDING MEDIUM HAVING THREE LAYERS

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## Related U.S. Application Data

[63] Continuation of Ser. No. 389,579, Feb. 15, 1995, abandoned, which is a continuation-in-part of Ser. No. 111,974, Aug. 26, 1993, abandoned.

	[30]	Foreign	Application	<b>Priority</b>	Data
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[51] Int Cl 6		G11R 11/00

309/2/3.2, 263, 264, 110, 112, 300/39, 114; 428/694 ML, 694 DE, 694 RL, 694 MM, 694 EC, 694 GR, 694 RE

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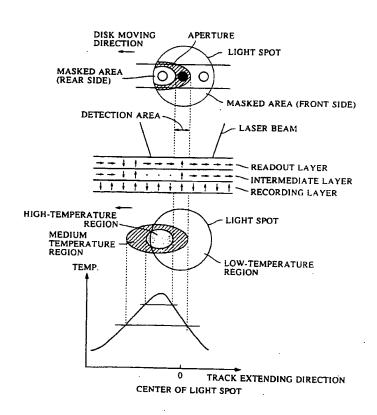
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## [57] 5 ABSTRACT

A magnetooptical recording medium has a first magnetic layer which is an in-plane magnetization film at both room temperature and high temperatures and changed to a perpendicular magnetization film at intermediate temperatures, and a second magnetic layer which is composed of a perpendicular magnetization film. The recording medium enables realization of high S/N reproduction of information recorded at a pitch below the diffraction limit of light with a simple structure, and further improvement in linear recording density and track density.

#### 2 Claims, 14 Drawing Sheets



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# **ABSTRACT**

A magnetooptical recording medium has a first magnetic layer which is an in-plane magnetization film at both room temperature and high temperatures and changed to a perpendicular magnetization film at intermediate temperatures, and a second magnetic layer which is composed of a perpendicular magnetization film. The recording medium enables realization of high S/N reproduction of information recorded at a pitch below the diffraction limit of light with a simple structure, and further improvement in linear recording density and track density.